

Installation and Operating Instructions

NSF 372 Certified – Made in the USA

Thank you for choosing the AMK-ODR Instant Hot Water Recirculation System by AquaMotion, Inc for single pipe tankless systems. Please read and follow these step by step instructions to ensure that the system operates properly and reliably. The **AquaMotion ODR Valve** is a small, quiet, lead free stainless/brass hot water recirculation valve. It installs at the fixture furthest from the hot water heater/tankless. It acts in conjunction with a circulator to supply hot water ON DEMAND. The ODR Valve mounts below the fixture between hot and cold supply lines. It installs on the cold water angle shut off valve. When hot water is called for using an ON-CALL™ control, the circulator transfers the cooled hot water in the hot water line into the cold supply line which returns it to the hot water heater. As hotter water reaches the ODR Valve it closes when a 95°F temperature is reached at which point the valve automatically adjusts to maintain this temperature. The circulator continues to operate for 5 minutes based on the factory setting of the receiver.

This AMK-ODR kit can also be used with the AMH1K-6ODRZT1 and the AMH1K-RODRN.

Warning: This is not an anti-scald valve.

Inspection

Inspect the system components to ensure no damage has occurred to them during shipping.

The AMK-ODR Valve Kit includes:
AquaMotion ODR Stainless Steel Valve
3/8" x 1/2" x 3/8" Compression Tee
24 Long 1/2" x 1/2" Flex Hose
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Tools Needed:

5/8" & 7/8" open end wrenches

Limits

Maximum water temperature 150°F
Maximum Pressure Rating 150 psi

Valve Installation

Note: Pipe dope and Teflon tape are not required for any of the valve threads.

The valve is normally installed at the faucet that is furthest away from the hot water heater/tankless heater. If there are separate hot water branches in the residence, additional valves may be required.

- 1) Close both the hot and cold angle stop valves under the sink.
- 2) Open both the hot and cold water faucets to relieve the water pressure.
- 3) Place a pan or rag below the connections to catch any water that may leak from the risers.
- 4) Disconnect the riser pipes or hoses from the angle stop valves.
- 5) Install the ODR valve onto the cold water angle stop using the 3/8" compression nut on the ODR valve.
- 6) Attach the cold water riser to the ODR valve.
- 7) Install the Tee from the kit to the hot water angle stop valve using the 3/8" compression nut on the Tee.
- 8) Attach the 1/2" hose from the kit between the 1/2" connection on the ODR valve and the 1/2" connection on the Tee.
- 9) Open the hot water angle stop valve and the cold water faucet to purge air from the line and valve.
- 10) Close the cold water faucet and open the cold angle stop valve.

Note: The spacing dimensions between angle stops vary. Position the valve and Tee hose connections to suit your system.

